

25319

6.5000 (also 1031 1159)

S/112/60/000/010/004/004  
A052/A101

AUTHORS: Plotkin, Ye.I.; Karateyev, B.V.; Yudina, O.M.

TITLE: "Ionophone"-type electroacoustic converter

PERIODICAL: Referativnyy zhurnal. Elektrotehnika, 1960, no. 10, 350, abstract 6.9539. (Tr. Nauchno-tekhn. konferentsii Leningr. elektritekh. inst. svyazi, no. 3, Leningrad, 1959, 39 - 46)

TEXT: The first test model of the ionophone, developed by the Leningrad Electrotechnical Institute of Communication, is described as well as the principle of the converter and a detailed basic circuit of the h-f generator, the main power supply element of the converter. It is pointed out that in its present form the ionophone differs considerably from the initial model proposed by Z. Kleyn and can be considered as a sufficiently promising type of an inertialess electroacoustic converter. The device can be tuned in such a way that noises are practically not perceived. Amplitude and frequency characteristics of the ionophone are given. It is possible to use the ionophone in 2-band acoustic units for reproducing the upper audio frequency sub-band and in single-band acoustic

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"Ionophone"-type electroacoustic converter  
systems as an additional h-f emitter.

S/112/60/000/010/004/004  
A052/A101

N.Ya.K.

[Abstracter's note: Complete translation]

Card 2/2

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000720620016-7

KARATEYEV, D. A.

CHEMISTRY

DECEASED

c. 1963

1964

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000720620016-7"

KARATEYEV, N.S., inzh.

Investigating reduction coefficients of moments of inertia in the  
cross section of a ship's hull during over-all vibration. Sudostroenie  
24 no.11:16-20 N '58. (MIRA 12:1)  
(Ships--Vibration)

FRENKEL', Mark Isaakovich; STRAKHOVICH, K.I., prof., retsenzent;  
KARATEYEV, S.N., inzh., red.; SIMONOVSKIY, N.Z., red.izd-va;  
DUDUSOVA, G.A., red.izd-va; SPERANSKAYA, O.V., tekhn.red.

[Piston compressors; theory, constructions, and fundamentals of  
design] Porshnevye kompressory; teoriia, konstruktsii i osnovy  
proektirovaniia. Izd.2., perer. i dop. Moskva, Gos.sauchno-tekhn.  
izd-vo mashinostroit.lit-ry, 1960. 654 p. (MIRA 13:11)  
(Compressors)

KARATEYEV, V.N.

NAUMOV, V.I.; SIDOROV, N.G.; SAKHAROV, V.K. [deceased]; VELETSKIY, G.A.,  
inzhener, retsentent; KARATEYEV, V.N., inzhener, retsentent; HAZAROV,  
D.M., inzhener, retsentent; TSVETNIKOV, V.I., kandidat tekhnicheskikh  
nauk, redaktor; KOCHUROV, N.I., inzhener, redaktor; FETISOV, F.I.,  
inzhener, redaktor; SOKOLOVA, L.V., tekhnicheskiy redaktor

[Operation, technical maintenance and repair of automobiles; reference  
materials] Eksploatatsiya, tekhnicheskoe obsluzhivanie i remont avto-  
mobilei; spravochnye materialy. Izd. 2-e, perer. i dop. Moskva, Gos.  
nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954. 495 p. [Microfilm]  
(Automobiles)

(MIRA 8:4)

NAUMOV, Vasiliy Ivanovich; SIDOROV, Nikolay Grigor'yevich; SAKHAROV,  
Vladimir Konstantinovich [deceased]; BELETSKIY, G.A., inzh.,  
retsenzent; KARATSEV, V.N., inzh., retsenzent; NAZAROV, D.M.,  
inzh., retsenzent; KOCHUROV, N.I., dotsent, kand.tekhn.nauk, red.;  
TSVETNIKOV, V.I., dotsent, kand.tekhn.nauk; GOFMAN, Ye.K., red.  
izd-va; SOKOLOVA, V.L., tekhn.red.

[Operation, technical maintenance, and repair of automobiles;  
reference materials] Ekspluatatsiya, tekhnicheskoe obsluzhivanie  
i remont avtomobilei; spravochnye materialy. Izd.3, perer. i dop.  
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 447 p.  
(Automobiles) (MIRA 12:5)

L 45897-66 EVT(m)/EVP(j)/T DS/JW/RM  
ACC NR: AP6026426 (A)

SOURCE CODE: UR/0079/66/036/005/0773/0776

AUTHOR: Lapidus, I. I.; Misel'son, L. A.; Karateyeva, A. A.

40  
B

ORG: State Scientific Research and Planning Institute of the Rare Metal Industry "Giredmet" (Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut redkometallicheskoy promyslennosti "Giredmet")

TITLE: Liquid-vapor equilibrium in systems formed by trichlorosilane and tetrachlorosilane with certain nitriles

SOURCE: Zhurnal obshchey khimii, v. 36, no. 5, 1966, 773-776

TOPIC TAGS: phase equilibrium, silane, acetonitrile, organic nitrile compound

ABSTRACT: In a study of the liquid-vapor equilibrium in systems formed by trichlorosilane and tetrachlorosilane with acetonitrile and benzonitrile, the experimental relationships between the boiling points and pressures were treated by the least-squares method and represented by equations of the form  $\log P = A - \frac{B}{T}$ . From the experimental

data, the activity coefficients, composition of the equilibrium vapor, relative volatility, and molar heat of vaporization were calculated as functions of the composition of the liquid phase. Positive deviations from ideality were established in the systems tetrachlorosilane-acetonitrile and trichlorosilane-acetonitrile. The effect of adding 2% acetonitrile or benzonitrile on the relative volatility of  $PCl_3$ ,  $POCl_3$ , and

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UDC: 541.127

L 45897-66

ACC NR: AP6026426

BCl<sub>3</sub> in tetrachlorosilane and trichlorosilane was studied. The nitriles were found to be effective in promoting the removal of BCl<sub>3</sub> impurity from SiCl<sub>4</sub> and SiHCl<sub>3</sub> by fractional distillation by converting BCl<sub>3</sub> into a much less volatile form than the substances being purified. The separation of PCl<sub>3</sub> and POCl<sub>3</sub> from SiCl<sub>4</sub> and SiHCl<sub>3</sub>, on the other hand, becomes much more difficult in the presence of acetonitrile and benzonitrile. Orig. art. has: 2 figures and 3 tables.

SUB CODE: 07/ SUBM DATE: 22May65/ ORIG REF: 005/ OTH REF: 005

Card

2/2 /115

L 45905-66 EWT(m)/T DS  
ACC NR: AP6026151

SOURCE CODE: UR/0076/66/040/007/1630/1631

AUTHOR: Lapidus, I. I.; Nisel'son, L. A.; Karateyeva, A. A.

ORG: State Scientific Research Institute of the Rare Metal Industry (Gosudarstvennyy nauchno-issledovatel'skiy institut redkometallicheskoy promyshlennosti)

TITLE: Liquid-vapor equilibrium in the SiHCl<sub>3</sub>-PCl<sub>3</sub> system

SOURCE: Zhurnal fizicheskoy khimii, v. 40, no. 7, 1966, 1630-1631

TOPIC TAGS: silane, phosphorus chloride, phase equilibrium, vapor pressure

ABSTRACT: The relationships between the boiling points and the pressure were determined for mixtures of trichlorosilane and phosphorus trichloride. The data obtained were treated by the least-squares method and are represented by equations of the form  $\log p = A - B/T$ . From this experimentally established dependence of the boiling points on the composition at 760 mm Hg, the activity coefficients of the components, composition of the equilibrium vapor, and relative volatility were calculated as functions of the composition of the liquid phase. Slight negative deviations from Raoult's law were found in the system. As the composition of the mixture changes from pure phosphorus trichloride to pure trichlorosilane, the relative volatility increases from 2.9 to 4.6. Orig. art. has: 2 tables.

SUB CODE: 07/ SUBM DATE: 23Jul65/ ORIG REF: 004/ OTH REF: 005

Card 1/1 mjs

UDC: 541.123

KARATEYEVA, M.

Struggle of party organizations in Stalino Province for increased production of coal during the third five-year plan. Izv. KPI 23: 62-77 '57. (MIRA 11:3)  
(Stalino Province--Coal mines and mining)

KARATKOU, K.N.; CHERCHES, Kh.A.

Catalytic polymerization and isomerism of terpene hydrocarbons.  
Vestsi AN BSSR no.5:109-120 S-0 '52. (MLRA 7:8)  
(Terpenes) (Polymers and polymerization) (Isomerism)

MAJEWSKI, Wojciech, mgr inz.; KARATNICKA, Elzbieta, mgr inz.

Velocity distribution in open channels and determination of the  
 $\alpha$  and  $\beta$  coefficients. Gosp wodna 25 no.2:79-82 F '65,

1. Institute of Hydraulic Engineering, Gdansk, of the Polish Academy  
of Sciences (for Majewski) 2. Institute of Soil Improvement and  
Grasslands, Warsaw (for Karatnicka).

POLAND / Chemical Technology, Chemical Products and Their Application. Carbohydrates and Their Processing.

H-26

Abs Jour : Ref Zhur - Khimiya, No 5, 1959, No. 17159  
Author : Peretjatkowicz, B.; Karatnicki, A.  
Inst : Not given  
Title : Results of Investigations of Sugar Beet Storage  
Orig Pub : Gaz. cukrown., 1958, 40, No 3, 87-90

Abstract : Presented are conclusions of many years of investigations pertaining to the storage of beets in various sections of Poland. The investigation covers effects of the climatic conditions, various methods of treating beets (spraying with milk of lime, ventilation of storage, covering with earth and mats, liming of storage bins). Feasibility of storage in large bins, covered on the sides with soil and white-washed at top, has been established. -- Ya. Shtenberg

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H-70

KARATOPRAKIEV, G.

E. C. Titchmarsh's Eigenfunction Expansions Associated with Second  
Order Differential Equations; a book review. Fiz mat spisanie BAN  
4 no.3:239-240 '61.

KARATOPRAKIEV, G.

"Eigenfunction expansions associated with second-order differential equations" by E.Ch.Titchmarsh. Reviewed by G.Karatoprakliev. Fiz mat spisanie BAN 4 no.4:318 '61.

KARATOPRAKLINEV, G.

Some notes on the differential equations of J. Halm. Izv Mat inst BAN  
5 no.1:65-71 '61.

16,3400

36832  
S/044/62/000/002/020/C92  
C111/C333

AUTHOR: Karatoprakliyev, G.

TITLE: Some conditions under which the Riccati equation can be reduced to a linear homogeneous equation of second order with constant coefficients

PERIODICAL: Referativnyj zhurnal, Matematika, no. 2, 1962, 43,  
abstract 2B186. ("Godishnik Mash.-elektrotekhn. in-t", 1960,  
(1960), 6, no. 1, 61-68)

[Abstracter's note: Complete translation.]

Card 1/1

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KARATOPRAKLINEV, G.

"Geometric theory of differential equations" by S. Lefshets. Reviewed by G. Karatoprakliev. Fiz mat spisanie BAN 5 no.2:157 '62.

KARATOFRAKIEV, G.

Some boundary problems for the  $u_{xx} + \text{sign } y u_{yy} = 0$ . I equation,  
Izv Mat inst BAN 7 139-150 '63.

I 16961-63

EWT(d)/PCC(v)/BDS

AFPTC/IJP(C)

S/020/63/149/006/001/027

(B)

54  
52AUTHOR: Karatoprakliyev, G.TITLE: Certain boundary-value problems for the equation  $u_{xx} + \operatorname{sign} y u_{yy} = 0$ 

PERIODICAL: Akademiya nauk SSSR. Doklady. vol. 149, no. 6, 1253-1256, 1963

TEXT: The author discusses two boundary-value problems of type  $T_1$  for the Lavrent'ev-Bitsadze equation  $u_{xx} + \operatorname{sign} y u_{yy} = 0$  (1) under the following conditions: D is a simply connected region in the xy plane and is bounded by a Jordan curve  $\sigma$  with endpoints at A(-1,0), B(1,0) that is in the upper half plane and by characteristics AC,  $y=-x-1$  and BC:  $y=x-1$  leaving the point C(0,1). Let  $E_k (e_k, 0)$ ,  $k = 1, \dots, n, -1 < a_1 < \dots < a_n < 1$  be given points on segment AB. The points  $A_k [1/2(a_k - 1), -1/2(a_k + 1)]$  and  $B_k [1/2(a_k + 1), 1/2(a_k - 1)]$ ,  $k = 0, 1, \dots, n + 1$  ( $a_0 = -1, a_{n+1} = 1$ ) lie on characteristics AC and BC, respectively. We let  $E_{n+1} [1/2(a_i + a_k), 1/2(a_i - a_k)]$ , be the point at which characteristics  $E_k B_k$  and  $E_k A_k$  ( $E_0 = A, E_{n+1} = B, E_{n+2} = A$ ,  $E_{k,n+1} = B_k$ ),  $i < k, i = 0, 1, \dots, n; k = 1, \dots, n + 1$  intersect. We denote the elliptic and hyperbolic parts of mixed domain D by  $D_1$  and  $D_2$ , respectively.

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L 16961-63

S/020/63/149/006/001/027

Certain boundary-value problems...

Problem T<sub>1</sub>: Find a function  $u(x,y)$  with the following properties: 1)  $u(x,y)$  is a solution to equation (1) everywhere in  $D$  except at points on segment AB, the real axis, and characteristics  $E_k A_k$  and  $E_k B_k$ ; 2)  $u(x,y)$  is continuous in the closed region  $\bar{D}$ ; 3) partial derivatives  $u_x$  and  $u_y$  are continuous at all points on segment AB except perhaps at the points  $E_k, k = 0, 1, \dots, n+1$ , where  $u_x$  and  $u_y$  may become equal to an infinity of order less than one; 4)  $u(x,y)$  takes the following values:  $u = \varphi$  on  $\partial D$ ;  $u = \psi_k$  on  $E_k E_{k-1} A_k$  for odd  $k$ ;  $u = \psi_k$  on  $E_{k-1} E_k B_k$  for even  $k$ ; where  $\varphi$  is continuous, while the  $\psi_k(x), k = 1, \dots, n+1$  are twice differentiable functions whose second derivatives satisfy the Holder condition, so that  $\psi_{k+1}(a_{2k-1}) = \psi_{2k}(a_{2k-1}), k = 1, 2, \dots$  (the condition  $\psi_{n+1}(1) = \varphi(1)$  should also be satisfied when  $n=2m$ ).

The author proves the solution of this problem to be unique, and then constructs it. A second problem of essentially the same type is also studied in a similar manner.

Association: Mathematics Institute and Computer Center, Bulgarian Academy of Sciences

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L 14127-63

ACCESSION NR: AP3000287

BIS/EWT(d)/FCC(w)

AFFTC

IJP(C)/JXT(IJP)/DE

8/0020/63/150/001/0023/0025

AUTHOR: Karatoprakliyev, G.

56

TITLE: Modified <sup>1/6</sup> T sub 1 problem for the equation  $u_{xx} + \operatorname{sgn} y u_{yy} = 0$ 

52

SOURCE: AN SSSR. Doklady, v. 150, no. 1, 1963, 23-25

TOPIC TAGS: none

ABSTRACT: Let  $D$  be a simply-connected domain in the  $xy$  plane whose boundary is  $\sigma + AC + BC$ , where  $\sigma$  is a Jordan curve situated in the upper half-plane  $y \geq 0$  with end points at  $A = (-1, 0)$  and  $B = (1, 0)$ ,  $AC$  is the straight line segment  $y = -x-1$ , and  $BC$  is the straight line segment  $y = x-1$ . For each  $k = 1, 2, \dots, n$ , let  $E_k = (a_k, 0)$  where  $-1 < a_1 < \dots < a_n < 1$ ,  $A_k = [1/2(a_k-1), -1/2(a_k+1)]$ , and  $B_k = [1/2(a_k+1), 1/2(a_k-1)]$  ( $a_0 = -1$ ,  $a_{n+1} = 1$ ).

The following boundary value problem is considered: to determine a solution  $u(x, y)$  of the equation  $u_{xx} + \operatorname{sgn} y u_{yy} = 0$  in  $D$  minus the segment  $AB$  of the  $x$ -axis joining  $A$  and  $B$ , the function having continuous first partial derivatives except possibly at the point  $E_k$ , and satisfying the boundary condition

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14127-63

ACCESSION NR: AP3000287

 $u = \psi$  on  $\sigma$ ,  $u = \psi_k$  on  $A_k A_{k+1}$ ,

3

$u = \psi_k + \alpha_k$  on  $B_k B_{k+1}$ , where  $\psi_0(-1) = \psi(-1)$  and  $\alpha_k$  are real numbers.  
 Author then constructs such a solution. "Author expresses gratitude to V. V. Aleksandrov for valuable discussion." Orig. art. has 9 formulas.

ASSOCIATION: Matematicheskiy institut s vychislitel'nym tsentrom Bolgarskoy Akademii nauk (Mathematical Institute and Computer Center of the Bulgarian Academy of Sciences)

SUBMITTED: 06Oct62

DATE ACQ: 10Jun 63

ENG

SUB CODE: MM

NO REF Sov: 006

OTHER: 000

[ANNOTATION: The equation under investigation should read

$$u_{xx} + \text{sign } y u_{yy} = 0$$

where  $\text{sign } y=1$  (often abbreviated  $\text{sgn } y=1$ ) for  $y>0$  and  $\text{sign } y= -1$  for  $y<0$ . See M. A. Lavrent'yev, A. V. Ritsadze, D A N, 70,  
 No. 3, 373 (1950).

Card 2/2 The second equation could not be located in the original journal article.]

KARATOPRAKLIYEV, G.

Generalization of the T problem for the equation  
 $u_{xx} + \text{sign } y u_{yy} = 0$ . Dokl. AN SSSR 151 no. 6; 1271-1273 Ag '63.  
(MIRA 16:10)  
1. Matematicheskiy institut s vychislitel'nym tsentrom Bolgarskoy  
Akademii nauk. Predstavлено akademikom M.A. Lavrent'yevym.

KARATOPRAKLINEV, G.

"The Wiener-Hopf method" by B. Nobl [Noble, Benjamin]. Reviewed by  
G. Karatoprakliev. Fiz mat spisanie BAN 6 no.1:70-71 '63.

| KARATOPRAKTEV, Georgi

Some boundary problems for the equation  $u_{xx} + \alpha u_{yy} = 0$ .  
t.2. Izv Mat inst BAN 8:95-107 '64.

1. Submitted September 14, 1963.

L3903-65 MT(d) (NP(c)/FSN(np)/ASD(a)-5/EMN(1)/AFWL  
ACCESSION NR: AP4045617

8/0020/64/158/002/0271/0274

AUTHOR: Karatoprakliyev, Z.

TITLE: Concerning one generalization of the Tricomi problem (b)

SOURCE: AN SSSR. Doklady", v. 158, no. 2, 1964, 271-274 (v)

TOPIC TAGS: partial differential equation, second order differential, parabolic differential equation, boundary condition, uniqueness theorem, existence theorem

ABSTRACT: The boundary problem was considered for the equation

$$\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y} = 0, \quad (1)$$

which is a generalization of the Tricomi problem (Mem. Lincei, Ser. 5, fasc. 7, 13, 1923). For the case when the sought function  $u(x, y)$  and its partial derivative  $u_y(x, y)$  have discontinuities of the first kind on the parabolic-degeneracy line. The uniqueness of

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L8903-65

ACCESSION NR: AP404561/

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the solution of the problem is demonstrated by showing that the solution  $u(x, y)$  has a positive maximum and a negative minimum in some closed domain. The existence is proved by demonstrating the possibility of determining a certain function  $v(x) = u_y(x, +0)$  in a class  $H^1$  on the segment  $[-1, 1]$ . Some particular cases when the existence can be proved in simpler fashion are noted. "The author thanks A. V. Bitsadze for useful intents and for interest in the work." This report was presented by M. A. Lavrent'ev. Crig. art. has: 15 formulas.

**ASSOCIATION:** Matematicheskiy Institut s vyчислител'nym tsentrom  
Bolgarskoy Akademii nauk, Sofiya (Mathematics Institute with Compu-  
tation Center, Bulgarian Academy of Sciences)

**SUBMITTED:** 21 May 64**ENCL:** 00**SUB CODE:** MA**MR REF Sov:** 003**OTHER:** 001

Card 2/2

BULGARIA/Nuclear Physics - Installations and Instruments.

C

Methods of Measurement and Research

**APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720620016-7"**

Abs Jour : Ref Zhur Fizika, No 2, 1960, 2786

increased. Results obtained indicate a strong influence of the anode adsorption. Thus, local heating of the anode by passage of direct current through it has led to a complete restoration of the initial working characteristics of the counters during cooling of the counter.

Card 2/2

EXCERPTA MEDICA Sec. 17 Vol. 3/3 Public Health Mar. 57

931. KARATOTEVA T. Acad. of Med. 'I. P. Pavlov', Plovdiv. "Estimation of dust in the atmosphere by centrifugation (Russian text) TRAV. ACAD. MED. 'I. P. PAVLOV' 1956, 7/1952-'53 (311-318)illus.4

The centrifugation method is described and represented in pictures. The dust particles are collected on a glass plate and counted by microscope or by projection on a ruled screen. The calculation technique is given and the results discussed.

study was made of the temperature effect in counters of identical constructions, in which the ability of adsorption of the cathode and anode material was artificially

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APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720620016-7"

*KARATOTEVA, T.*

77

Sochi, 22(1), Institute of Metal Physics, No. 1, p. 5, 1951	1. Properties of Semiconductors. Semiconductor Test. Preparation of the Dose of Photoactivation in Photo-electrodes. A. Andreev and V. K. Karatoteva. (In Russian with English summary) (In Russian with English abstract) pp. 32-33.
2. Non-Equilibrium Distribution of Electric Charge in Semiconductors. (In English summary) (In Russian with English abstract) pp. 34-35.	3. Effect of the Anode Voltage on the Temperature Dependence of Semiconducting Properties of Germanium. A. Andreev and V. K. Karatoteva. (In English with English summary) pp. 35-36.
4. Non-Equilibrium Distribution of Particular Currents in the Semiconductor Device of Oscillations. S. Slobodin. (In English with English abstract) pp. 36-37.	5. The Absorption of Metal Oxides by German Semiconductor Junctions. In the Ukrainian Language. V. G. Slobodin. (In English with English abstract) pp. 38-39.
6. The Effect of Current Density on the Rate of Annealing of Absorption. D. Mironov and V. V. Kostylev. (In English with English summary) pp. 40-41.	7. Effects of Radiation on the Conductivity of Germanium. A. Andreev and V. K. Karatoteva. (In English with English abstract) pp. 42-43.
8. On Diffusion in Planarized Crystallites of Ferrite. V. V. Slobodin. (In English with English summary) pp. 44-45.	9. Preparation of the Crystal Structure of Semiconducting Materials. V. V. Slobodin. (In English with English summary) pp. 46-47.
10. Preparation of Semiconducting Materials and their Application in Semiconducting Circuits. V. V. Slobodin. (In English with English summary) pp. 48-49.	11. Non-Electrolytic Preparation of the Gallium Arsenide Layer. V. V. Slobodin. (In English with English summary) pp. 50-51.

S/263/62/000/006/009/015  
I008/I208

AUTHORS: Peeva, A. and Karatoteva, T.

TITLE: Temperature stable regions and ageing of self-quenched  
G.M. counters

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. 32, Izmeritel'-  
naya tekhnika, no.6, 1962, 38, abstract 32.6.231.  
(Dokl. Bolg. AN, 1961, 14, no.2, 135-138)

TEXT: Measurements carried out by a number of researchers with  
counters (C) having the same geometry and gas-filling yielded  
strongly divergent results; for example, the lower limit of the  
temperature stable region varied between -3° and +9°C, and its upper  
limit between +60° and +100°C. One of the reasons for this diverg-  
ence may be the difference in the methods of degassing of the  
electrodes and of decontamination of the gas-filling, which deter-  
mine the adsorption capacity of the walls of C. Another reason  
may be that C was used before the experiment for different periods

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S/263/62/000/006/009/015  
I008/I208

Temperature stable regions...

of time, thus producing differences in the concentration of the quenching agent and hence differences in the temperature characteristics of C. Experiments were performed with specially prepared C of the same design and dimensions and with the same filling (argon + 10% of alcohol vapors). The stable temperature region of freshly prepared C was from -5° to +70°C. The lower limit constantly went up during the time of operation; it reached +10° after C recorded 10<sup>7</sup> pulses, +30° after 10<sup>14</sup> pulses and so on. Apparently the dissociation products of the quenching agent settle on the inner surface of C, hence, in order to restore the purity of the surfaces, the counter has to be heated. This assumption was verified experimentally: after recording 10<sup>15</sup> pulses, i.e., after having used up all the molecules of the quenching agent, the C were partially restored by heating the anode (it was made from copper and its diameter was 0.2 mm) by a 0.5 amp current, or by general heating up to 70°C. It is assumed that on heating, a part of the dis-

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I008/I208

Temperature stable regions...

sociation products recombine and acquire anew quenching properties. Further ageing of C (above  $10^{16}$  pulses) brought about irreversible changes. There are 7 references.

[Abstracter's note: Complete translation.] ✓

Card 3/3

PEEVA, A.; KARATOTEVA, T.

Effect of cathode material of G.M. counters on change in temperature-stable region in case of fatigue. Doklady BAN 17 no.10:889-892 '64.

1. Submitted July 12, 1964.

KARATOV, Mikhail Mikhaylovich, kand. geogr. nauk; LUNIN, B.A., red.;  
KABIROV, I.V., tekhn. red.

[Frunze Province; brief sketch of its economic geography]  
Frunzenskaia oblast'; kratkii ekonomiko-geograficheskii  
ocherk. Frunze, Kirgizskoe gos. izd-vo, 1956. 157 p.  
(MIRA 16:8)  
(Frunze Province--Economic geography)

SOKOLOV, S.S. (Leningrad, Khersonskaya ul., d.2/9, kv.37); TSAKADZE, L.O.;  
KARATOVA, V.A.

Transcutaneous catheterization of the heart cavities and aorta  
by the Seldinger technique. Vest.khir.90 no.2:52-57 F'63.  
(MIRA 16:7)

1. Iz gospital'noy khirurgicheskoy kliniki (zav.- prof. F.G.  
Uglov) 1-go Leningradskogo meditsinskogo instituta imeni  
Pavlova.

(CARDIAC CATHETERIZATION)

KARATSEVA, I.

Violations disclosed by audits. Fin. SSSR 21 no.12:63-66 D '60.  
(MIRA 13:12)  
(Auditing)

KARATSEVA, I.

Payments and compensation from the budget. Fin. SSSR 23 no.9:78-80  
S '62. (MIRA 15:9)  
(Grain trade—Prices) (Oilseeds—Prices)

SOROKIN, Valentin Alekseyevich; SKVIRSKIY, Lev Grigor'yevich; KARATSEVA,  
Izetkhan Kaziyevna; SAMOYLOV, V., otv. red.; SHATROVA, T., red.  
izd-va; TELEGINA, T., tekhn. red.

[Organization of auditing work on government revenue]Organiza-  
tsiya revizionnoi raboty po gosudarstvennym dokhodam. Moskva,  
Gosfinizdat, 1962. 219 p. (MIRA 16:3)  
(Revenue--Auditing and inspection)

PINTER, Jozsef, dr.; BALOGH, Ferenc, dr.; KARATSON, Andras, dr.; SZELESTEI, Tamas, dr.

The problem of the prevention of acute anuria with special reference to the use of mannitol. Orv. hetil. 106 no.34:1603-1605 22 Aug'64.

Use of mannitol in the treatment of chronic uremia. Ibid.:1607-1609

1. Pecsi Orvostudomanyi Egyetem, Urologiai Klinika (igazgato: Balogn, Ferenc, dr.).

S/042/60/015/03/02/002

AUTHOR: Karatsuba, A.A.

TITLE: Solution of a Problem of the Theory of Finite Automatons<sup>b</sup>

PERIODICAL: Uspekhi matematicheskikh nauk, 1960, Vol.15, No.3, pp.157-159

TEXT: In two theorems the author gives the complete solution of a problem given by Moore (Mur) (Ref.1). He uses notions and notations of (Ref.1).

Theorem 1: If  $S$  is an  $(n,m,p)$ -mashine with pairwise distinguishable states, then there exists a ramified experiment the length of which at most is  $\frac{(n-1)(n-2)}{2} + 1$

and with the aid of which the state of  $S$  at the end of the experiment can be determined.

Theorem 2: There exists an  $(n,m,p)$ -mashine with pairwise distinguishable states so that the length of the shortest experiment which determines the state of the mashine at the end of the experiment, is equal to  $\frac{(n-1)(n-2)}{2} + 1$ .

For the proof of theorem 1 the author constructs an experiment consisting of successive groups of steps which satisfy the following condition  $\alpha_k$ ) Before the beginning of the  $k$ -th group the associated set of states has not more

CARD 1/2



21554

16,1000

S/020/61/137/003/002/030  
C111/C222AUTHOR: Karatsuba, A.A.TITLE: Evaluations of some trigonometric sums of special form  
and their applications

PERIODICAL: Akademii nauk SSSR. Doklady, vol.137, no.3, 1961, 513-514

TEXT: The author considers the sum

$$S = \sum_{x=1}^N e^{2\pi i \left( \frac{a_1 x}{p^n} + \frac{a_2 x^2}{p^{n-1}} + \dots + \frac{a_n x^n}{p} \right)}, \quad (1)$$

where  $(a_\nu, p) = 1$ ,  $\nu = 1, 2, \dots, n$ .Theorem 1: Let  $S$  be given by (1),  $p \leq N \leq p^n$ ,  $\log p \geq n^2 \log^3 n$ . Then

$$|S| \leq c_1 N^{-\frac{n^2}{2}},$$

where  $c_1, c_2$  are absolute constants.Theorem 2: Let  $\chi(k)$  -- primitive character mod  $D = p^n$ ,  $p$  -- prime

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S/020/61/138/003/002/030  
C111/C222

Evaluations of some trigonometric sums... number > 2 and  $\log p \gg n^2 \log^3 n$ . Furthermore let  $S_N = \sum_{k=1}^N \chi(k)$ . Then it holds

$$|S_N| \leq \begin{cases} p^2 & \text{if } N \leq p^2 \\ 1 - \frac{c_4}{n^2} & \text{if } p^2 \leq N \leq p^n \\ c_3 N & \text{if } p^n \leq N \end{cases}$$

where  $c_3, c_4$  are absolute constants.

Theorem 3: Let  $n^2 \log^3 n \ll \log p \leq n^\theta$ ,  $\chi(k)$  -- primitive character mod  $D = p^n$ ,  $p$  -- prime number > 2. Then  $L(s, \chi)$  has no zeros in the region

$$|s| < c_5, \quad \sigma > 1 - \frac{1}{\log^{\frac{\theta+1}{2}} D},$$

where  $c_5$  is a constant.

Conclusion: Let  $\epsilon > 0$  be arbitrarily small and  $n^2 \log^3 n \ll \log p \leq n^{2+\epsilon}$ . Then  $L(s, \chi)$  has no zeros in

Card 2/3

21554

Evaluations of some trigonometric sums...

S/020/61/137/003/002/030  
C111/C222

$$|s| < c_s, \zeta > 1 - \frac{1}{\log^{2/3 + \varepsilon} D}.$$

The author mentions I.M. Vinogradov and A.G. Postnikov, and thanks N.M. Korobov for aid in the performance of the present paper. There are 4 Soviet-bloc references.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova  
(Moscow State university im. M.V. Lomonosov)

PRESENTED: October 29, 1960, by I.M. Vinogradov, Academician

SUBMITTED: October 27, 1960

Card 3/3

KANTOROVICH, L.A. (Cont'd.)

Tarry's problem for a system of equations. Mat. sbor. 55  
no.1:209-220 S '61. (NIIK 14:10)  
(Mathematical analysis)

KARATSUBA, A.A.

Analog of Waring's problem. Vest. Mosk. un. Ser. 1: Mat., mekh.  
17 no.1:38-46 Ja-F '62. (MIRA 15:1)

1. Kafedra teorii chisel Moskovskogo universiteta.  
(Numbers, Theory of)

*IC. 670*S/020/62/145/002/006/018  
B112/B180AUTHORS: Karatsuba, A., and Ofman, Yu.

TITLE: Multiplication of multi-digit numbers by automatic computers

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 145, no. 2, 1962, 293-294

TEXT: The function  $y = d_5(x)$  describes the multiplication of two m-digit numbers. Its realization by dual automata is investigated. The following two theorems are derived: 1 (Ofman). For any s,  $1 \leq s \leq m$ , the function  $d_5$  can be realized by dual automata with the characteristics  $N \asymp m^{2/3}$ ,  $T \asymp s \log_2 m$  ( $m \rightarrow \infty$ ). 2 (Karatsuba). The function  $d_5$  can be realized by dual automata with the characteristics  $N \asymp m^{\frac{log_2 3}{2}}$ ,  $T \asymp \log_2 m$ . *IC*

PRESENTED: February 13, 1962, by A. N. Kolmogorov, Academician

SUBMITTED: February 9, 1962

Card 1/1

KARATSUBA, A.A.

Distribution of fractional parts of polynomials of a special  
type. Vest.Mosk.un.Ser.1: Mat.,mekh, 17 no.3:34-39 My-Je  
'62.  
(MIRA 15:7)

1. Kafedra teorii chisel Moskovskogo universiteta.  
(Polynomials)

A.  
KARATSUBA, A.; QFMAN, Yu.

Multiplication of multidigit numbers by automatic computers.  
Dokl.AN SSSR 145 no.2:293-294 Jl '62. (MIRA 15:7)

I. Predstavleno akademikom A.N.Kolmogorovym.  
(Electronic digital computers)

KARATSUBA, A.A.

Waring problem for a congruence module equal to the power of  
a prime number. Vest. Mosk. un. Ser. 1: Mat.,mekh. 17 no.4:  
28-38 Jl-Ag '62. (MIRA 15:7)

1. Kafedra teorii chisel Moskovskogo universiteta.  
(Congruences and residues)

GEL'FOND, Aleksandr Osipovich; LINNIK, Yuriy Vladimirovich. Prinimali  
uchastiye: VINOGRADOV, A.I.; MANIN, Yu.I.; KARATSUBA, A.A.,  
red.; AKSEL'ROD, I.Sh., tekhn. red. ....,

[Elementary methods in the analytical theory of numbers] Ele-  
mentarnye metody v analiticheskoi teorii chisel. Moskva,  
Fizmatgiz, 1962. 269 p. (MIRA 16:3)  
(Numbers, Theory of)

KARATSUBA, A.A.; KOROBOV, N.M.

Theorem of the mean. Dokl. AN SSSR 149 no.2:245-248 Mr '63.

1. Predstavleno akademikom A.N.Kolmogorovym.  
(MIRA 16:3)  
(Linear equations)

KAPATSUBA, A.A.

Trigonometric sums of a special type and their applications.  
Izv. AN SSR. Ser. mat. 28 no. 1:237-248 Ja-F '64.  
(MIR 17:6)

KARATSUBA, A.A.

Estimation of the number of solutions to certain equations. Dokl.  
AN SSSR 165 no.1:31-32 N '65. (MIRA 18:10)

1. Submitted March 23, 1965.

KARATSUBA, A.A.

Systems of congruences. Izv. AN SSSR. Ser. mat. 29 no.4 1965.  
944 '65.  
(MIRA 18-9)

KARATSUBA, A.A.

Congruence systems and Waring-type equations. Dokl. AN SSSR  
165 no.2:274-276 N '65.  
(MIRA 18:11)

1. Submitted April 8, 1965.

L 31225-66 EWT(d) IJP(c)

ACC NR: AP6022807

SOURCE CODE: UR/0038/66/030/001/0183/0206

AUTHOR: Karatsuba, A. A.

24  
B

ORG: none

TITLE: Theorems of the mean and complete trigonometric sums<sup>16</sup>  
SOURCE: AN SSSR. Izvestiya. Seriya matematicheskaya, v. 30, no. 1, 1966, 183-206  
TOPIC TAGS: trigonometry, asymptotic expansion, polynomial, number theory, series  
ABSTRACT: The article deals with the evaluations and asymptotic formulas for a number of solutions of certain comparison systems. Accurate evaluations of the quantities  $J_{k,n}$  and  $N_{k,n}$  are obtained chiefly as a function of such problems of the numbers theory as the evaluation of polynomial trigonometric sums and problems of the Waring, Hilbert-Kamke, and Tarry type. The calculations are based on I. M. VINOGRADOV's theory of reducing the evaluation of  $J_{k,n}$  to a repeated application of an accurate evaluation of "one-sided" systems of equations (VINOGRADOV, I.M., Izbrannyye Trudy, Moscow-Leningrad, AS USSR Press, 1952), as applied to the solutions of a definite system of comparisons, thus reducing the problem of evaluating  $N_{k,n}$  - which is a problem with an incomplete system of subtractions - to a problem with a complete system of subtractions. Orig. art. has: 29 formulas. [JFRS]

SUB CODE: 12 / SUBM DATE: 08Jun65 / ORIG REF: 008 / OTH REF: 005

Card 1/1 B LG

UDC: 511

0715

0786

ACC NR: AP7005420

SOURCE CODE: UR/0020/66/169/001/0009/0011

AUTHOR: KratSUBA, A. A.

ORG: Moscow State University Im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Asymptotic formulas for a certain class of trigonometric sums

SOURCE: AN SSSR. Doklady, v. 169, no. 1, 1966, 9-11

TOPIC TAGS: trigonometry, asymptotic solution

ABSTRACT: An asymptotic formula is obtained for a certain class of trigonometric sums which makes it possible to judge the behavior of the moduli of such sums when the summing interval is varied.

The formula is given in the form of a theorem, which is proved with the aid of a lemma. It is shown that the theorem can be extended to a broader class of trigonometric sums. This paper was presented by Academician I. M. Vinogradov on 22 October 1965. Orig. art. has: 2 formulas. [JPRS: 38,695]

SUB CODE: 12 / SUBM DATE: 18Oct65 / ORIG REF: 002

Card 1/1

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000720620016-7

KARATSUBA, A. P., MALTSEV, E. I., NAGY, T., NAGY, J.,

"Identification of Particles in Xenon Bubble Chamber Without Magnetic Field"

paper presented at the Intl Conference on High Energy Physics, Rochester, N.Y.  
and/or Berkly California, 25 Aug - 16 Sep 1960.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000720620016-7"

BORONNIKOV, A.; CHEBOTAREV, V.; KARATSUBA, M.; KOLTASHEV, G.

State Bank, economic problems and public participation. Den. i kred.  
20 no.10:18-29 0 '62. (MIRA 15:12)

1. Upravlyayushchiy Smol'ninskim otdeleniyem Gosbanka Leningrada.  
(for Boronnikov). 2. Upravlyayushchiy Moskvoretskym otdeleniyem  
Gosbanka Moskvy (for Chebotarev). 3. Upravlyayushchiy Apsheronskim  
otdeleniyem Gosbanka Krasnodarskogo kraya (for Karatsuba). 4. Za-  
mestitel' upravlyayushchego Sverdlovskoy kontoroy Gosbanka (for Koltashev).  
(Banks and banking) (Industrial management)

KARATSUKOV, Sultan Aliyevich; KOROTKIKH, Aleksey Vasil'yevich;  
BALKAROV, K.Sh., red.

[Laboratory control in farm dairies and milk receiving stations; manual for laboratory workers of farm dairies, for the inspectors of state and collective farm administrations, and laboratory workers of creameries and cheese factories] Laboratornyi kontrol' na prifermskikh molochnykh i punktakh priemki moloka; posobie dlia laborantov prifermskikh molochnykh inspektorov kolkhozno-sovkhoznykh upravlenii i laborantov maslosyrozavodov. Nal'chik, Kabardino-Balkarskoe knizhnoe izd-vo, 1963. 49 p.

(MIRA 17:9)

ACC NR: AP7001335

SOURCE CODE: UR/0428/66/000/004/0106/0109

AUTHOR: Sirota, N. N.; Brzhezinskiy, V. A.; Dyukov, V. G.; Karatsyuba, A. P.; Korshunov, F. P.; Lezhov, Yu. F.; Chernyshev, A. A.

ORG: none

TITLE: Investigation of the effects of reactor radiation on the structure and parameters of silicon p-n junctions [Papers presented at the First Conference on Radiation Solid State Physics held on 8 September 1965 in Kiev]

SOURCE: AN BSSR. Vestsi. Seryya fizika-matematichnykh navuk, no. 4, 1966, 106-109

TOPIC TAGS: silicon, silicon semiconductor, neutron radiation, micrograph, pn junction, pn silicon

ABSTRACT: An investigation was made of the influence of the gamma neutron radiation of a reactor on changes in the structure and electrophysical parameters of p-n junctions, prepared by the diffusion method on n-type silicon with specific resistances of 2, 10, and 250 ohm · cm. The samples were irradiated in the

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ACC NR: AP7001335

vertical channel of a reactor of the AN BSSR. It was found that radiation causes considerable changes in the volt-ampere characteristics of silicon diffusion p-n junctions. These changes increase with the resistance of the original silicon base from which the p-n junction is prepared. Radiation ( $1.10^{15}$  n/cm<sup>2</sup>) decreases the barrier capacity of the p-n junction and its dependence on the reverse voltage virtually disappears. The electron micrograph of the p-n junction, shifted on a bias of 30 v, showed no changes in the shape, location, and width of the p-n junction during this shift (after radiation). The width of the p-n junction after exposure was found to be independent of the bias voltage. It was possible to observe a drop of the direct voltage in the diode base having an initial specific resistance of 10 and 250 ohm · cm. It was also found that isochronous annealing at maximum of 350 C restores the direct branch of the volt-ampere characteristics of the p-n junction. Orig. art. has: 4 figures. [WA-095] [GC]

SUB CODE: 20/SUMB DATE: 25Jun66/ORIG REF: 003/OTH REF: 002/

Card 2/2

KARATUN, T.N.

Effect of the type of watering pregnant ewes on oxidation processes  
in the skin of fetuses and pelt productivity of Karakul sheep. Trudy  
Inst. morf. zhiv. no. 22:194-198 '57.  
(NIR 11:4)

1. Vsesoyuznyy institut shivetnovodstva,  
(Karakul sheep--Watering) (Hides and skins)

AGS'YEV, N.P.; KARAFUSHIN, S.I.

Methods for short-time tests of metals of elevated deformation  
rates. Zav. lab. 30 no.5:592-595 '64. (MIRA 17:5)

1. Leningradskiy mekhanicheskiy institut.

KARATUYEV, G.A., red.; KHAVINSON, Yu.I., red.

[Manual for a master tapper] Rukovodstvo masteru podsochki. Irkutsk, Irkutskoe knizhnoe izd-vo, 1962. 140 p.  
(MIRA 17:5)

1. Nauchno-tehnicheskoye obshchestvo lesnoy promyshlennosti i lesnogo khozyaystva. Irkutskoye oblastnoye pravleniye.

KARATYGIN, A.L., inzhener.

Some problems of building enterprises for the Ministry of Building  
and Road Machinery Construction. Stroi. i dor.mashinostr. 1 no.12:28-  
30 D '56. (MLRA 10:1)  
(Building machinery industry)

KARATYGIN, A.M.

Review of the foreign periodicals. Vest.mash.27 no.3:77-80 '47.  
(Bibliography--Machinery) (MIRA 9:4)

KARATYGIN, A.M.

Review of foreign periodicals. Vest.mash.27 no.2:78-p.3 of cover.  
"47. (Bibliography--Machinery)  
(MLRA 9:4)

KARATYGIN, A.M.

Review of foreign periodicals. Vest.mash.27 no.11:79-p.3 of cover.  
N '47. (Bibliography--Machinery)  
(MLRA 9:4)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000720620016-7

KARATYGIN, A.M.

Review of foreign periodicals. Vest.mash.27 no.12:98-100 D 147.  
(Bibliography--Machinery)  
(MIRA 9:4)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000720620016-7"

KARATYGIN, A. M. DOCENT

PA 2/49T49

USSR/Engineering  
Tools, Cutting  
Machinery - Construction

Jul. 48

"Scientific and Technical Session of the Committee  
for Sharpening and Finishing of Cutting Tools,"  
Docent A. M. Karatygin, Cand. Tech Sci, 1 p

"Vest Mashinostroy" No 7

Presents results of Feb 48 session of subject  
committee to determine better methods for sharpen-  
ing and finishing cutting tools as a means to  
increase the life of the tools and machinery  
production.

2/49T49

KARATYGIN, A. M. and KORSHUNOV, B. S.

*Khimiko-mekhanicheskii sposob obrabotki tverdykh splavov. (Vestn. Mash., 1950,  
No. 12, p. 30-34)*

DLC: TN4.V4

(Chemicomechanical treatment of hard alloys.)

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of  
Congress, 1953.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000720620016-7

KARATYGIN, A. M. Docent, KORSHUNOV, B. S.

GRINDING AND POLISHING

Gripping a cast cutting tool. Vest. mash. 32 no. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1957, Uncl.  
2

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000720620016-7"

KARATYGIN, A. M., FAZAKOV, N. F.

Metal Cutting

New material for cutting tools. Vest. mash. 32 No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1952; Uncl.

1. KARATYGIN, A. M., KORSHUNOV, B. S.
2. USSR (600)
4. Metal Cutting
7. Sharpening and polishing cutters coated with a mineral-ceramic film. Vest mash No 11 1952.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000720620016-7

KARATYGIN, A. M.; KASAKOV, N. F.

"New Material for Cutting Tool Bits," Vestnik Mashinostroenie, June, No. 4, April 1952, pp 87-90. Reprinted Sverojnickiy Vyber, No. 11, Nov. 1952, pp 507-508.

Analysis B-85830, 26 May 55

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000720620016-7"

KARATYGIN, A.N., kandidat tekhnicheskikh nauk; KORSHUNOV, B.S., kandidat tekhnicheskikh nauk.

Lapping of hard-alloy tools with the B<sub>1</sub> new abrasive. Vest.mash. 33 no.11:  
80 N '53.  
(MLRA 6:12)  
(Grinding and polishing)

KARATYGIN, A. M.

KARATYGIN, A.M., kandidat tekhnicheskikh nauk, dotsent; KORSHUNOV, B.S., kandidat tekhnicheskikh nauk; PRUMIN, Yu.L., inzhener, retsenzent; ZUSMANOVSKIY, M.K., inzhener, retsenzent; ZATULOVSKIY, D.I., kandidat tekhnicheskikh nauk, redaktor.

[Sharpening and lapping cutting tools] Zatochka i dovodka rezhuschego instrumenta. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroitel'noi i sudostroitel'noi literatury, 1954. 206 p. (MLRA 7:7)  
(Cutting tools)

DIKUSHIN, V.I., akademik, otvetstvennyy redaktor; KARATYGIN, A.M., re-daktor; POLYAKOVA, T., tekhnicheskiy redaktor.

[Advanced experience of innovators of machine construction;  
materials for conferences of scientists and industrial innovators]  
Perevodoi opyt novatorov mashinostroenia; materialy k soveshchaniiu  
uchenykh s novatorami proizvodstva. Moskva, Izd-vo Akademii nauk  
SSSR, 1954. 206 p.

(MLRA 8:2)

1. Akademiya nauk SSSR. Institut mashinovedeniya.  
(Machine-shop practice)

KARATYGIN, A.M., dotsent, kandidat tekhnicheskikh nauk.

Results of consultation concerning the examination and introduction of  
ceramic cutting tools into production. Vest.mash.34 no.4:100-101 Ap '54.  
(Cutting tools) (MLRA 7:5)

KARATYGIN, A.M.  
KARATYGIN, A.M.

DIKUSHIN, V.I., akademik, redaktor; KARATYGIN, A.M., kandidat tekhnicheskikh  
nauk, redaktor; TIKHONOV, A.Ya., tekhnicheskii redaktor

[Friction and wear in metal cutting] Trenie i iznos pri rezaniï me-  
tallov. Pod obshchei red. V.I.Dikushina. Moskva, Gos.nauchno-tekhn.  
izd.-vo mashinostroitel'noi lit-ry, 1955. 140 p. (MLRA 9:1)

1. Akademiya nauk SSSR. Komissiya po tekhnologii mashinostroyeniya.  
(Metal cutting)

KARATYGIN, A. M.

User/ Miscellaneous - Conferences  
Card 1/1 Pub. 103 - 17/19  
Authors A. Karatygin, A. M.  
Title Results of the conference on high productive metal cutting  
Periodical Stan. i instr. 2, 37 - 38. Feb 1955  
Abstract Minutes are presented of the special conference called by the Commission on Machine Construction Technology (Nov 21 - 22 1954), at which the problems of high productive metal cutting processes were debated. The names of known Soviet metallurgists (specialists on metal cutting), who attended the conference are listed.  
Institution: Academy of Sciences, USSR, Institute of Machine Construction  
Submitted: .....

KARATYGIN, A. M.

USER/ Metallurgy - Conferences

Card 1/1 Pub. 128 - 19/25

Authors : Karatygin, A. M., Cand. Techn. Sc.

Title : Lecture on the theory of high-productive metal cutting and conference on  
the introduction into industry of the ceramic cutting tool

Periodical : Vest. mash. 35/4, 82-84, Apr 1955

Abstract : Minutes are presented from the conferences held in November 1954 by the  
Commission of Machine Construction Technology at the Acad. of Sc., USSR  
where problems of high-productive metal cutting and the introduction of a  
ceramic cutting tool into industry were debated.

Institution : .....

Submitted : .....

PAVLOV, Lavrentiy Yerofeyevich; KARATYGIN, A.M., kandidat tekhnicheskikh nauk, nauchnyy redaktor; KONTSEVAYA, E.M., redaktor; KUZ'MIN, D.G., tekhnicheskiy redaktor

[Modern devices for inspecting cutting tools] Sovremennye pribory dlja kontrolya rezushchego instrumenta. Moskva, Vses. uchebno-pedagog. izd-vo Trudrezervizdat, 1956. 77 p. (MLRA 10:2)  
(Cutting tools)

SHAL'NOV, Valeriy Alekseyevich, kandidat tekhnicheskikh nauk; CHESTNOV, A.L.,  
kandidat tekhnicheskikh nauk, retsenzent; KARATYGIN, A.M., dotsent,  
kandidat tekhnicheskikh nauk, retsenzent; BEZEL'MAN, R.D., inzhener,  
redaktor; PETROVA, I.A., izdatel'skiy redaktor; ZUDAKIN, I.M.,  
tekhnicheskiy redaktor

[Fast grinding of alloyed structural steel] Skorostnoe shlifovanie  
legirovannykh konstruktsionnykh stalei. Moskva, Gos. izd-vo obor.  
promyshl., 1956. 126 p.

(Steel, Structural) (Grinding and polishing) (MIRA 9:12)

YAKOBSON, Mikhail Osipovich, doktor tekhnicheskikh nauk, professor; LUR'YE,  
G.B., professor, retsenzent; KARATYGIN, A.M., kandidat tekhnicheskikh  
nauk, redaktor; MODEL', B.I., tekhnicheskiy redaktor.

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[Metal cutting; metal cutting, cutting tools, machine tools] Obrabotka metallov rezaniem; rezanie metallov, rezhushchii instrument, metallorezhushchie stanki. Moskva, Gos.izd-vo obor.promyshl., 1959. 657 p.

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TUCHINSKIY, Naum Vladimirovich; LAVROV, Gleb Aleksandrovich; ZAYTSEV,  
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KARATYGIN, A.M., kand. tekhn. nauk, retsenzent; IVANOVA, N.A.  
red. izd-va; UVAROVA, A.F., tekhn. red.

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Using diamonds in grinding and lapping hard-alloy parts. Vest.  
mash. 41 no.11:58-63 N '61. (MIRA 14:11)

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Diamond machining of cutting tools equipped with hard alloys.

Vest.mashinostr. 42 no.11:47-49 N '62. (MIRA 15:11)  
(Metal-cutting tools) (Grinding and polishing)

KARATYGIN, A.M., kand. tekhn. nauk; KORSHUNOV, B.S., kand. tekhn. nauk; MASLOV, Ye.N., prof., doktor tekhn. nauk, retsenzent; ZAVOZIN, L.F., inzh., red.; IVANOVA, N.A., red.izdva; EL'KIND, V.D., tekhn. red.

[Grinding and lapping metal-cutting tools] Zatochka i dovodka rezluchchego instrumenta. Izd.2., perer. i dop. Moskva, Mashgiz, 1963. 270 p. (MIRA 16:12)  
(Metal-cutting tools)  
(Grinding and polishing)

KARATYGIN, A. P.

PA 66/49T77

USSR/Medicines - Brucellosis, Therapy Apr 49  
Health, Resorts

"The Treatment of Brucellosis at the 'Sergiyevskiy  
Mineral Waters' Health Resort," A. P. Karatyggin,  
Chief, Brucellosis Div, "Sergiyevskiy Mineral  
Waters" Health Resort, 4 2/3 pp

"Klin Med" Vol XXVII, No 4

Treated inapparent, organic, local symptoms by  
(1) sunlight, diathermy, and mud, and (2) quartz  
ionophoresis. Treated other cases with both  
general and local methods involving the locomotor  
apparatus and peripheral nerves. Reached no  
categorical conclusions. Further study is needed.

66/49T77

KARATYGIN, I.V.

Materials on the mycoflora of two forest associations in Taseyev  
District of Krasnoyarsk Territory. Trudy TSSES no.10:134-138 '65.  
(MIRA 18:10)

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N. F. Kasikov. (Vestnik Mashinostroyeniya, 1962, No. 4, p.  
pp. 67-68.)*

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AUTHORS: Namyrin, S. A. and Karatygin, V. A.

TITLE: Study of reverse conductance effect in junction diodes with a view to its application for new pulse circuits

PERIODICAL: Radiotekhnika i elektronika, v. 7, no. 6, 1962,  
1014-1018

TEXT: The transition period is divided into two stages: in the first stage ( $\tau_1$ ) voltage on the diode is approximately the same as when current was flowing in the forward direction and the diode presents a short-circuit; in the second stage ( $\tau_2$ ) current is determined by the diffusion of minority carriers towards the junction and the diode must be treated as a generator of decreasing current; after  $\tau_1 + \tau_2$  diode resistance becomes that determined by static characteristics. A fundamental equation describing the transition period is obtained assuming that maximum diffusion current depends only on the number and distribution of minority carriers and not

Card 1/2